MPA 122

22 Watt Two Channel Integrated MPA - Mini Power Amplifier

FEATURES

- **Inputs: Balanced or unbalanced stereo on a captive screw connector; unbalanced stereo on RCA connectors and a 3.5 mm stereo mini jack**
- **Speaker outputs: 5 mm captive screw connector**
- **Improved Class D amplification design.**
- **11 watts rms per channel into 4 ohms, 7 watts rms per channel into 8 ohms**
- **THD + Noise: 0.1%, 1 kHz at nominal level for 1 watt, 8 ohm load**
- **Front panel bass, treble, and input level controls**
- **Balanced and unbalanced buffered audio inputs**
- **Front panel clip limiter switch to prevent amplifier clipping**
- **Remote volume and mute control port**
- **Plenum rated - meets UL 2043 for heat and smoke release, excluding power supply**
- **Rack-mountable 1U, quarter rack width metal enclosure**
- **External universal power supply included, part # 70-380-01**

DESCRIPTION

The Extron **MPA 122** Integrated Mini Power Amplifier provides stereo amplification for speaker systems in classrooms and other applications requiring compact, economical audio solutions. It is an ideal step-up from a basic classroom system utilizing built-in video projector speakers. The MPA 122 delivers 11 watts rms per channel into 4 ohms and 7 watts rms into 8 ohms. It is optimized for driving four 8 ohm ceiling speakers, two in parallel per channel.

The MPA 122 accepts balanced and unbalanced stereo inputs, and provides outputs as stereo or dual mono audio signals. Front panel controls are provided for bass, treble, and input level. The front panel also features switches for stereo/dual mono operation and a clip limiter switch which automatically reduces the gain to prevent distortion or amplifier clipping. The MPA 122 features remote control capability for volume adjustment and muting.

SPECIFICATIONS

AUDIO

Frequency response	20 Hz to 20 kHz, ±1 dB @ 1 watt output
THD + Noise	0.1% @ 1 kHz at nominal level (1 watt, 8 ohm load)
S/N	>74 dB @ 20 Hz to 20 kHz at maximum output (unweighted, with balanced input)
Stereo channel separation	>55 dB @ 1 kHz, >45 dB @ 20 kHz
CMRR	80 dB @ 1 kHz, 70 dB @ 20 kHz

AUDIO INPUT

Number/signal type	1 stereo, balanced/unbalanced input 2 stereo, unbalanced inputs (The three inputs are individually buffered and mixed together.)
Connectors	(1) 3.5 mm captive screw connector, 5 pole (main input) (1) 3.5 mm mini audio jack (tip, ring, sleeve) 1 pair RCA
Nominal level	+4 dBu (1.23 Vrms) balanced or -10 dBV (316 mVrms) unbalanced
Maximum level	
Level pot. at 10 o'clock	+6 dBV (unbalanced), +16 dBu (balanced) at 1% THD+N
Level pot. at 9 o'clock	+17 dBV (unbalanced), +27 dBu (balanced) at 1% THD+N
Input level sensitivity	-18 dBV from unbalanced input for maximum output (11 watts with a 4 ohm load and level set to maximum) before clipping

AUDIO OUTPUT

Number/signal type	1 stereo or 2 mono (2 channels total)
Connectors	(1) 5 mm captive screw connector, 4 pole
Minimum load impedance	4 ohms
Amplifier type	Improved Class D
Continuous power with a full load and 1% THD	
At 4 ohms	11 watts (rms) per channel
At 8 ohms	7 watts (rms) per channel
Damping factor	>30 (with a 4 ohm load)

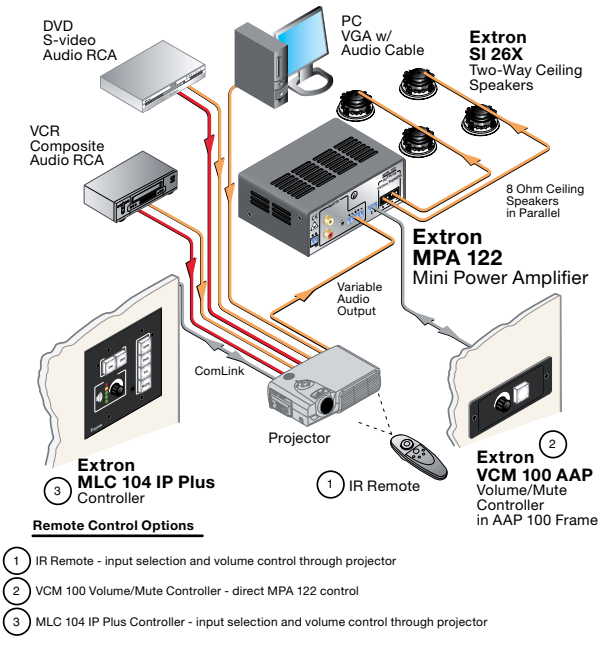
CONTROL/REMOTE — AMPLIFIER

Control port	(1) 3.5 mm captive screw connector, 3 pole
Pin configuration	Pin 1 = +10 VDC, pin 2 = volume/mute (variable voltage), pin 3 = GND

GENERAL

External power supply	100 VAC to 240 VAC, 50/60 Hz, external; to 12 VDC, 3 A (max.), regulated
Power input requirements	12 VDC, up to 3 A
Mounting	
Enclosure type	Metal
Enclosure dimensions	1.7" H x 4.3" W x 3.0" D (1U high, quarter rack wide) (4.3 cm H x 10.9 cm W x 7.6 cm D) (Depth excludes connectors.)
Product weight	0.6 lbs (0.3 kg)
Shipping weight	3 lbs (2 kg)

Note: For complete specifications, please go to www.extron.com



MODEL

MODEL	VERSION DESCRIPTION	PART #
MPA 122	22 Watt Two Channel Mini Power Amplifier	60-668-01

OPTIONAL ACCESSORIES	MODEL DESCRIPTION	PAGE	PART #
VC 50	Volume Control Wall Plate	page 702	70-530-02
VCM 100 AAP	Volume and Mute Controller - AAP Version	page 702	70-396-11
VCM 100 MAAP	Volume and Mute Controller - MAAP Version	page 702	70-397-11
PMK 100	One VersaTools®, 1/4 Rack Width Pole Mount Kit	page 852	70-217-01
PMK 300	Multi-Product Pole Mount Kit	page 852	70-374-01

Extron®
USA West
+1.714.491.1500 / +800.633.9876
+1.714.491.1517 FAX
USA East
+1.919.863.1794 / +800.633.9876
+1.919.863.1797 FAX
www.extron.com
© 2010 Extron Electronics. All rights reserved.
Pricing and specifications may change without notice.